

AV-3420CE/AVC-3420CE

CCIR Standard High Resolution Series



High resolution of more than 300 lines

Portable, AC/DC operation

Recording/Playback videocorder

Video camera with built-in viewfinder and Electret Condenser Microphone

Features ■ **High resolution of more than 300 lines** with use of newly developed High Density Video Tape and precisely designed heads, more than 300 lines of horizontal resolution is assured. So pictures are stable and clear with vivid contrast — a sharply focused, virtually grain-free picture. ■ **Compact and lightweight record/playback system** It can be operated in any position and carried on operator's back or shoulder. ■ **AC/DC operation** The self-contained rechargeable battery pack BP-20 provides approx. 30 minutes of continuous operation. Or car battery with optional car battery cord DCC-2400CE. Or AC household current with supplied AC adaptor AC-3420CE. ■ **Immediate playback facility** The recorded material can be immediately played back and seen through the camera viewfinder screen. ■ **RF unit (optional)** enables AV-3420CE to play back on



ordinary TV sets. ■ **Automatic Gain Control** for video and audio adjusts recording levels automatically. ■ **Complete tape interchangeability** with all Sony AV-CE series VTR's ■ **All-in-one compact video camera** incorporating electronic viewfinder, zoom lens and high performance omnidirectional Electret Condenser Microphone ■ **Other facilities** * Audio dubbing * Still picture for close examination * Time counter shows the recording time minute by minute, indicating the amount of tape. * Automatic tape-end shut-off mechanism * Manual tracking control

Research makes the difference

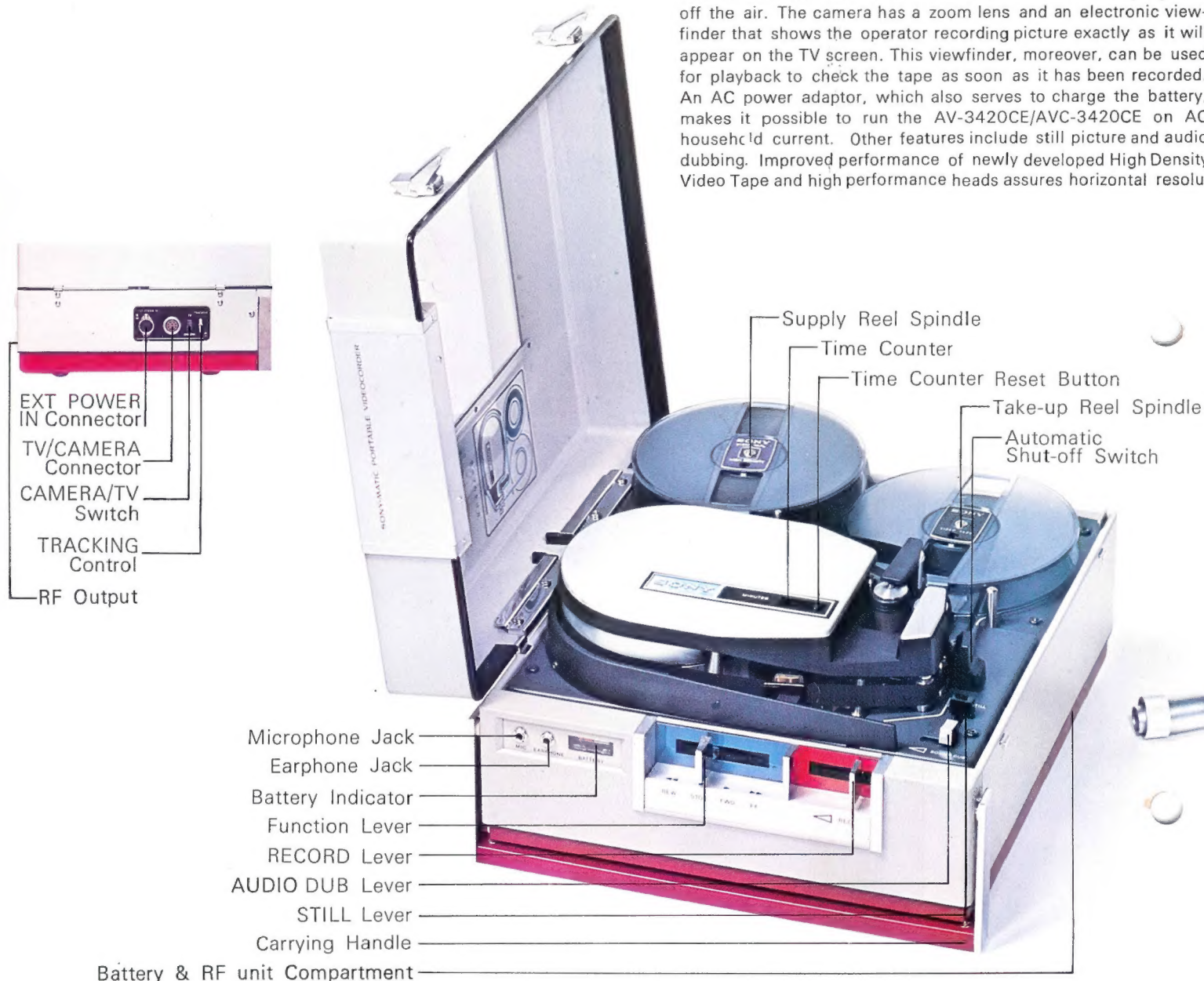
SONY®

AV-3420CE

PORTABLE VIDEO TAPE RECORDER

The AV-3420CE/AVC-3420CE is a complete portable, battery-operated VTR system that can be carried and operated by one person. It offers high resolution picture quality created from the techniques and experiences accumulated over many years. It consists of a handheld video camera (with zoom lens and built-in Electret Condenser Microphone) connected to a shoulder- or back-carried videocorder. The videocorder records picture and sound and to play them back on a monitor or, with the optional RF unit on an ordinary TV set.

The videocorder can likewise be used to record TV programs off the air. The camera has a zoom lens and an electronic viewfinder that shows the operator recording picture exactly as it will appear on the TV screen. This viewfinder, moreover, can be used for playback to check the tape as soon as it has been recorded. An AC power adaptor, which also serves to charge the battery, makes it possible to run the AV-3420CE/AVC-3420CE on AC household current. Other features include still picture and audio dubbing. Improved performance of newly developed High Density Video Tape and high performance heads assures horizontal resolu-






Portable Videocorder AV-3420CE Specifications

Video recording system: Rotary two head helical scan, FM recording
 Power requirements: DC 12V \pm 1.2V
 AC 220V or 240V, 50Hz with supplied AC adaptor
 AC-3420CE (changeable to 110 or 127V)
 Power consumption: 12.6W (without camera)
 Video signals: British TV standards (405 lines)
 CCIR and OIRT TV standards (625 lines)
 French TV standards (819 lines), 50 fields
 Input: 0.5Vp-p - 2Vp-p, 75 ohms unbalanced
 Output: 1.0Vp-p, 75 ohms unbalanced
 Horizontal resolution: more than 300 lines (CCIR standard)
 Video bandwidth: \geq 3.8MHz, -20dB
 Signal-to-noise ratio: better than 40dB
 Audio signals: input: Microphone -65dB, 3.6k ohms unbalanced
 output: -4dB
 Earphone, high impedance
 Frequency response: 100Hz - 10,000Hz

Audio signal-to-noise ratio: better than 40dB
 Tape speed: 163.22mm/sec
 Recording time: more than 30 minutes with V-60H
 Operating temperature: 0° - 40°C (32° - 105°F)
 Reel size: 5" (13cm) in maximum diameter
 Dimensions: 280(W) x 157(H) x 295mm(D) (11 x 6 1/4 x 11 5/8")
 Weight: 8.5 kg (18 lb 12 oz) with BP-20, V-60H and reel
 Supplied accessories: AC adaptor AC-3420CE
 Battery pack BP-20
 High Density Video Tape V-60D
 Empty reel RH-5E
 Earphone CE-3
 Monitor connecting cable VMC-1M (10p-8p, 1.5m)
 Splicing tape
 Cleaning kit
 Shoulder bag

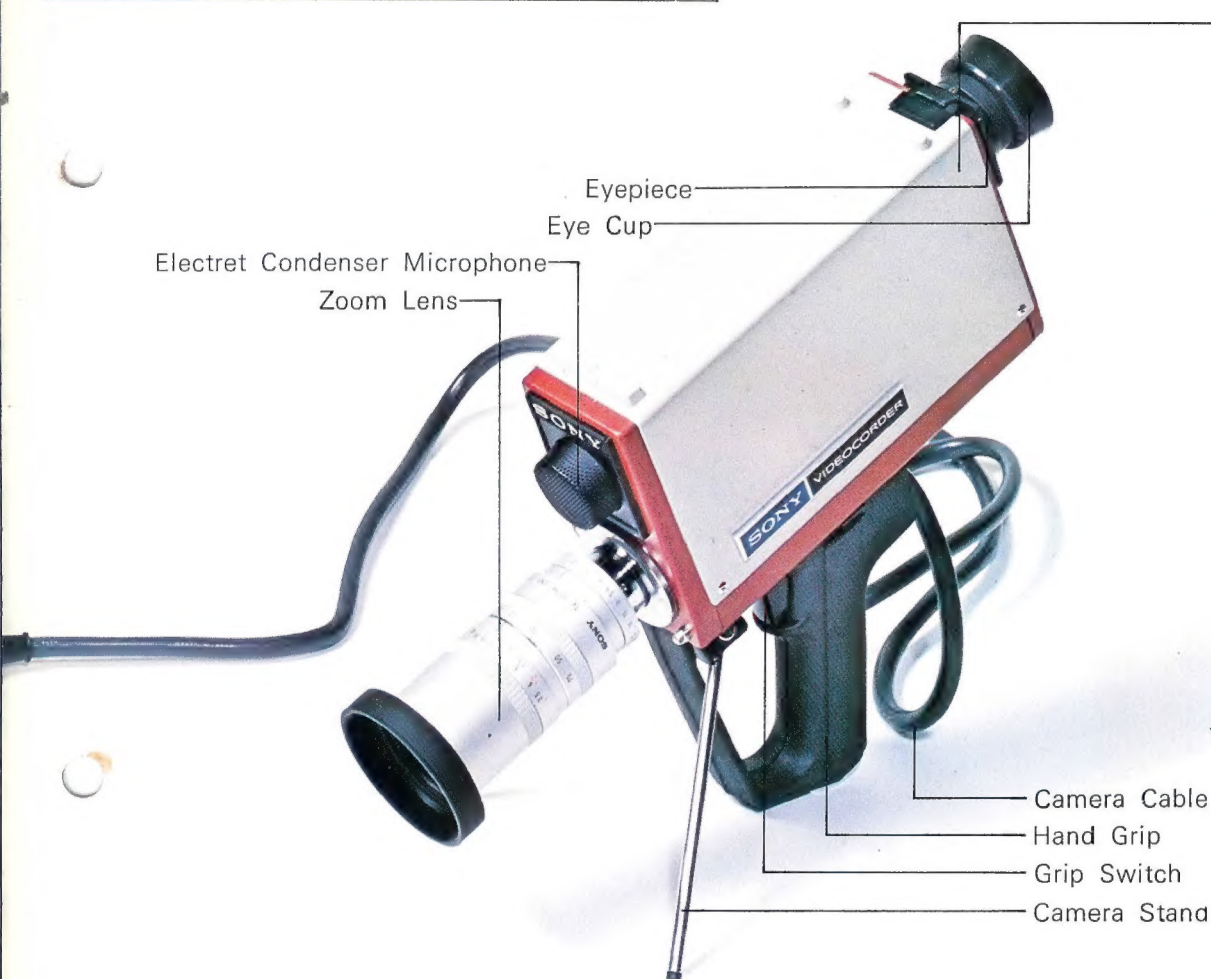
(Design and specifications subject to change without notice.)

tion in excess of 300 lines. Pictures are sharp and clear with vivid contrast — a sharply focused, virtually grain-free picture. Tapes are interchangeable with those of any Sony AV-CE series VTR.

High Density Video Tape					
Model	V-62	V-61	V-60H	V-60E	V-60D
Reel size (inch)	7	7	5	7	5
Length (m)	610	310	310	216	216
Playing time (min.)	60	30	30	20	20

AVC-3420CE

PORTABLE VIDEO CAMERA



Viewfinder

Eyepiece

Eye Cup

Electret Condenser Microphone

Zoom Lens

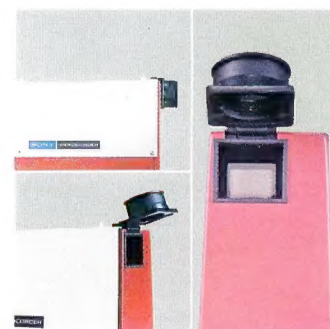
SONY
VIDEOCORDER

Camera Cable

Hand Grip

Grip Switch

Camera Stand



Direct Display of the Playback Picture

When the videocorder is operated in the playback mode, the playback picture can be immediately seen on the built-in camera viewfinder screen.

In this case, it is convenient to raise the eyepiece for easy viewing. Pull out two feet on the sides of the grip to provide a stable base.

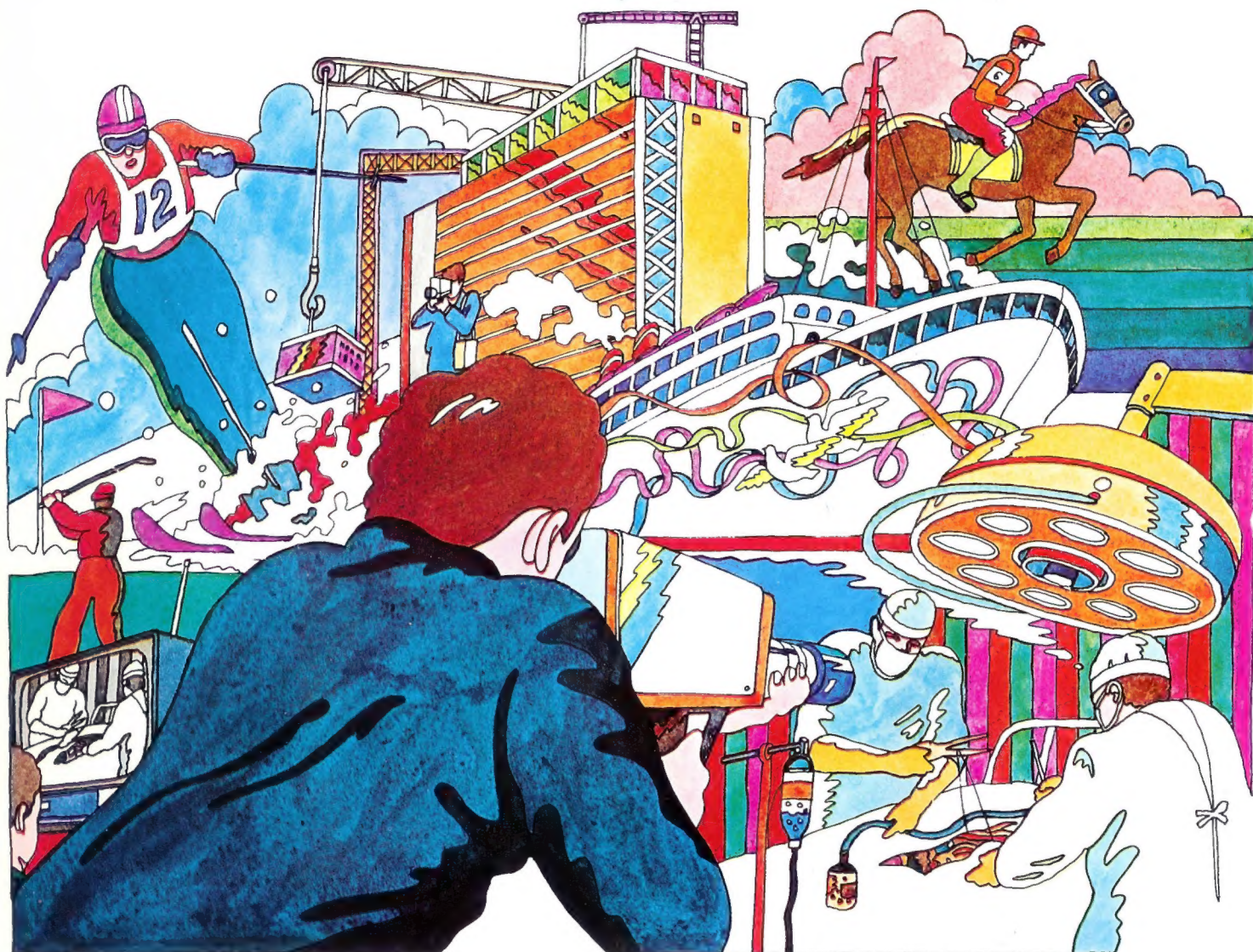
Video camera AVC-3420CE Specifications

Vidicon: 2/3 inch separate mesh vidicon
 Scanning system: 2:1 interlaced scanning, 625 lines, with VTR sync supplied from AV-3420CE
 CCIR standard
 Frame numbers: 25 frames per second
 Sync system: External—synchronized with AV-3420CE
 accepts horizontal and vertical drive
 Signal output: 1Vp-p, sync negative, 75 ohms unbalanced
 Horizontal frequency: 15.625kHz
 Vertical frequency: 50Hz
 Horizontal resolution: more than 400 lines
 Signal-to-noise ratio: better than 40dB
 Minimum light level: 200 lux (20 footcandles)
 Automatic sensitivity control: 300 – 100,000 lux (30 – 10,000 footcandles)
 Components: 39 transistors, 24 diodes
 Power requirements: DC 12V supplied by AV-3420CE

Power consumption: 8W
 Ambient temperature: 0° – 40°C (32° – 105°F)
 Lens mount: C mount
 Viewfinder: Built-in 1.2 inch
 Microphone: Built-in Electret Condenser Microphone
 Omni-directional characteristics
 Output connector: 10 pin connector
 Dimensions: 76(W)×127(H)×383mm(D)(3×10 $\frac{1}{4}$ ×15 $\frac{1}{8}$ ") with zoom lens
 Weight: 2.8 kg (6 lb 2 oz) with zoom lens
 Supplied accessories: Zoom lens VCL-1206
 Camera grip
 Shoulder strap
 Optional accessories: Camera stand VCT-1 (monopod)
 VCT-20A (tripod)
 Camera cable CCJ-1 (1.6m), CCJ-5 (5m), CCJ-10 (10m)

(Design and specifications subject to change without notice.)

VERSATILE AND WIDE APPLICATIONS



Recommended video equipment

CVM-110UET



CVM-112UM

AV-3420CE Supplied accessories

AC adaptor AC-3420CE
Battery pack BP-20
Earphone CE-3
Splicing tape
Cleaning kit

Monitor
connecting cable
VMC-1M



Shoulder bag



Empty reel
RH-5E



High Density
Video Tape V-60D

AVC-3420CE Supplied accessories

Shoulder strap
Rubber spacer



Camera grip



Zoom lens VCL-1206

AVC-3420CE Optional accessories

Camera stand VCT-1 (monopod)
VCT-20A (tripod)
Camera cable CCJ-1, CCJ-5, CCJ-10

Use only "V-60 series" High Density Video Tape for high resolution AV-CE series VTRs.